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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No: To Be Assigned
Applicant: Y. Nakagawa et al.
Filed: Herewith
Title: TRANSMITTER APPARATUS AND RADIO COMMUNICATION METHOD
TC/A.U.:
Examiner:

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO 1449 (RP) submitted herewith. A copy of the references listed on the 1449 form is enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

The following references are not in the English language:

- 1) JP 2002-503048
- 2) JP 2001-506833
- 3) WO 99/14870
- 4) JP 2003-23380
- 5) JP 2002-77980
- 6) JP 2002-77986
- 7) JP 2002-261670
- 8) JP 2004-120730

MAT-8681US

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9) JP 2004-135302

10)JP 2002-152191

11)"The Institute of Electronics, Information and Communication Engineers,
Technical Report"

References 1) to 10) include English language abstracts.

Reference 11) includes a partial English translation.

Reference 10) is not in the English language, but a "concise explanation" under 37 CFR Section 1.98(a)(3) is set forth in the background portion of the above specification on page 2.

References 1) to 9) were cited in a search report by a foreign Patent Office in a patent application corresponding to the above-identified patent application. A copy of this English language search report, indicating the degree of relevance determined by the foreign patent office is submitted herewith. MPEP Section 609A(3), second paragraph.

This Information Disclosure Statement is being filed concurrently with the above-referenced application.

Respectfully submitted,

Lawrence E. Ashery, Reg. No. 34,515
Attorney for Applicants

LEA/dlm

Enclosures: PTO Form 1449
(11) References
Search Report

Dated: April 13, 2005

P.O. Box 980
Valley Forge, PA 19482
(610) 407-0700

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I hereby certify that this paper and fee are being deposited, under 37 C.F.R. § 1.10 and with sufficient postage, using the "Express Mail Post Office to Addressee" service of the United States Postal Service on the date indicated above and that the deposit is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Kathleen Libby

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Substitute for Form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

SHEET 1 of 2

Complete if Known

Application Number	To Be Assigned
Filing Date	Herewith
First Named Inventor	Y. Nakagawa et al.
Art Unit	
Examiner Name	
Attorney Docket No.	MAT-8681US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		JP 2002-503048 (w/English abstract)	1/29/2002	ARRAYCOMM INC		<input type="checkbox"/>
		JP 2001-506833 (w/English abstract)	5/22/2001	CWILL TELECOMMUNICA -TIONS INC		<input type="checkbox"/>
		WO 99/14870	3/25/1999	ADAPTIVE TELECOM INC		<input type="checkbox"/>
		JP 2003-023380 (w/English abstract)	1/24/2003	ARRAYCOMM INC		<input type="checkbox"/>
		JP 2002-077980 (w/English abstract)	3/15/2002	SANYO ELECTRIC CO LTD		<input type="checkbox"/>
		JP 2002-077986 (w/English abstract)	3/15/2002	SANYO ELECTRIC CO LTD		<input type="checkbox"/>
		JP 2002-261670 (w/English abstract)	9/13/2002	YRP MOBILE; TELECOMMUNICA -TIONS KEY TECH RES LAB CO LTD; MITSUBISHI ELECTRIC CORP		<input type="checkbox"/>
		JP 2004-120730 (w/English abstract)	4/15/2004	Matsushita Electric Industrial Co Ltd		<input type="checkbox"/>
		JP 2004-135302 (w/English abstract)	4/30/2004	Matsushita Electric Industrial Co Ltd		<input type="checkbox"/>
		JP 2002-152191 (w/English abstract)	5/24/2002	Matsushita Electric Industrial Co Ltd		<input type="checkbox"/>

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional).

²See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

⁶Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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JC12 Rec'd PCT 13 APR 2005

(AW 08/03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	To Be Assigned
Filing Date	Herewith
First Named Inventor	Y. Nakagawa et al.
Art Unit	
Examiner Name	
Attorney Docket No.	MAT-8681US

SHEET 2 of 2

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		M. Horiike, et al., "The Institute of Electronics, Information and Communication Engineers, Technical Report", Shingaku Gihou Vol. 102, No. 374, October 18, 2002 (w/partial translation).	<input checked="" type="checkbox"/>
		International Search Report corresponding to application no. PCT/JP2004/001449 dated June 8, 2004.	<input type="checkbox"/>
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¹Applicant's unique citation designation number (optional).

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